

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: HARDEE Examiner #: _____ Date: 5/2/03
Art Unit: 1751 Phone Number 30 5-55-99 Serial Number: DP/868,920
Mail Box and Bldg/Room Location: 9B36 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept and utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Whatever you can find. Thanks.

STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>Ki Fuller</u>	NA Sequence (#) _____	STN <input checked="" type="checkbox"/> _____
Searcher Phone #: _____	AA Sequence (#) _____	Dialog _____
Searcher Location: _____	Structure (#) <u>6</u>	Questel/Orbit _____
Date Searcher Picked Up: _____	Bibliographic _____	Dr. Link _____
Date Completed: <u>5/5/03</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: <u>40</u>	Fulltext _____	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: <u>60</u>	Other _____	Other (specify) _____



STIC Search Report

EIC 1700

STIC Database Tracking Number: 93038

**TO: John Hardee
Location: CP3 9B36
May 5, 2003**

Case Serial Number: 09/868920

**From: Kathleen Fuller
Location: EIC 1700
CP3/4 3D62
Phone: 308-4290**

Kathleen.Fuller@uspto.gov

Search Notes

EIC1700

Search Results

Feedback Form (Optional)



Scientific & Technical Information Center

The search results generated for your recent request are attached. If you have any questions or comments (compliments or complaints) about the scope or the results of the search, please contact *the EIC searcher* who conducted the search *or contact*:

Kathleen Fuller, Team Leader, 308-4290, CP3/4 3D62

Voluntary Results Feedback Form

➤ *I am an examiner in Workgroup:* *Example:*

➤ *Relevant prior art found, search results used as follows:*

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
(journal articles, conference proceedings, new product announcements etc.)

➤ *Relevant prior art not found:*

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Search results were not useful in determining patentability or understanding the invention.

Other Comments:

Drop off completed forms in CP3/4 - 3D62 .

=> FILE REG

FILE 'REGISTRY' ENTERED AT 13:11:47 ON 05 MAY 2003
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 4 MAY 2003 HIGHEST RN 510703-80-7
DICTIONARY FILE UPDATES: 4 MAY 2003 HIGHEST RN 510703-80-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP
PROPERTIES for more information. See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> FILE HCAPLUS

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FILE COVERS 1907 - 5 May 2003 VOL 138 ISS 19
FILE LAST UPDATED: 4 May 2003 (20030504/ED)

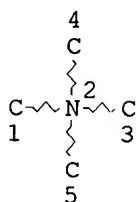
This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> D QUE

L34 944049 SEA FILE=REGISTRY ABB=ON 46.156.30/RID
L35 166247 SEA FILE=REGISTRY ABB=ON L34 AND 2/NC
L36 9555 SEA FILE=REGISTRY ABB=ON L35 AND 10-29/C AND 1/NR
L37 12254 SEA FILE=HCAPLUS ABB=ON L36
L41 STR



*any
identifiers*



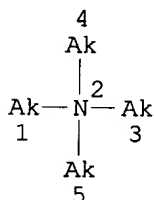
inroad search

NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 5

STEREO ATTRIBUTES: NONE

L43 SCR 2040
 L45 SCR 2043
 L47 SCR 1918
 L49 101736 SEA FILE=REGISTRY SSS FUL L41 AND L43 NOT (L45 OR L47)
 L50 STR



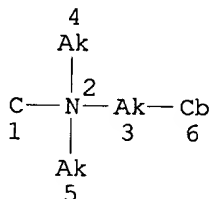
subset

NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED
 ECOUNT IS M8 C AT 3
 ECOUNT IS M8 C AT 4

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 5

STEREO ATTRIBUTES: NONE
 L55 STR

Ak 7



subset

NODE ATTRIBUTES:
 CONNECT IS E2 RC AT 3
 DEFAULT MLEVEL IS ATOM
 GGCAT IS MCY UNS AT 6

DEFAULT ECLEVEL IS LIMITED
 ECOUNT IS M1-X3 C AT 3
 ECOUNT IS M5 C AT 7

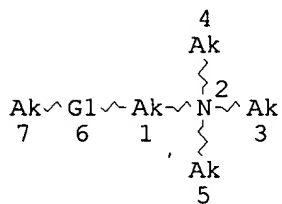
GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 7

STEREO ATTRIBUTES: NONE

L58 4413 SEA FILE=REGISTRY SUB=L49 SSS FUL L55 OR L50
 L69 116527 SEA FILE=REGISTRY SSS FUL L41 AND L43 NOT L47
 L70 STR

O=C-N
 @11 @12 @13

subset



O=C-O
 8 @9 @10

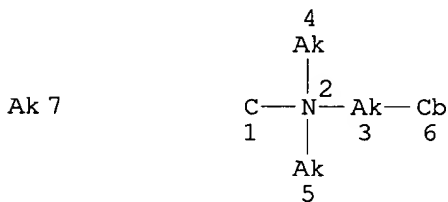
VAR G1=11-7 13-1/13-7 12-1/9-7 10-1/9-1 10-7

NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED
 ECOUNT IS M12 C AT 7

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE

L72 STR



subset

NODE ATTRIBUTES:
 CONNECT IS E2 RC AT 3
 DEFAULT MLEVEL IS ATOM
 GGCAT IS MCY UNS AT 6
 DEFAULT ECLEVEL IS LIMITED

ECOUNT IS M1-X3 C AT 3
ECOUNT IS M5 C AT 7

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 7

STEREO ATTRIBUTES: NONE

L75 1865 SEA FILE=REGISTRY SUB=L69 SSS FUL L70
L77 1480 SEA FILE=REGISTRY SUB=L69 SSS FUL L72
L78 2313 SEA FILE=HCAPLUS ABB=ON L77
L95 2208 SEA FILE=REGISTRY ABB=ON L58 AND 1-10/NR
L96 2205 SEA FILE=REGISTRY ABB=ON L58 NOT L95
L97 9156 SEA FILE=HCAPLUS ABB=ON L96
L98 426 SEA FILE=HCAPLUS ABB=ON L75 AND (L97 OR L37 OR L78)
L99 13 SEA FILE=HCAPLUS ABB=ON L98 AND SOFT?(5A) COMPOSITION?
L100 8 SEA FILE=HCAPLUS ABB=ON L98 AND SOFT?(5A) COMPNS
L101 16 SEA FILE=HCAPLUS ABB=ON L99 OR L100

=> D L101 1-16 HITSTR ALL

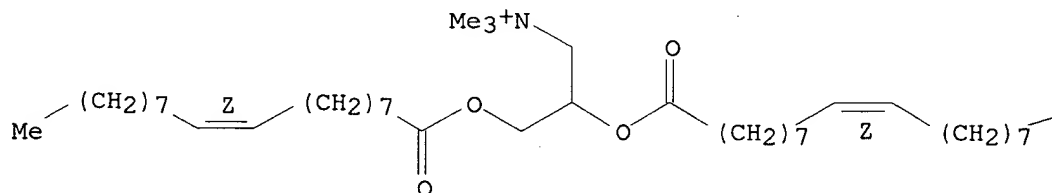
Structure
L101 ANSWER 1 OF 16 HCAPLUS COPYRIGHT 2003 ACS
IT **144189-73-1**, Dotap **145310-87-8**, Transfectace
RL: PEP (Physical, engineering or chemical process); THU (Therapeutic
use); BIOL (Biological study); PROC (Process); USES (Uses)
(comps. and methods for embolization gene therapy)
RN 144189-73-1 HCAPLUS
CN 1-Propanaminium, N,N,N-trimethyl-2,3-bis[[(9Z)-1-oxo-9-octadecenyl]oxy]-,
methyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 113669-21-9
CMF C42 H80 N O4

Double bond geometry as shown.

PAGE 1-A



PAGE 1-B

Me

CM 2

CRN 21228-90-0

CMF C H3 O4 S

Me-O-SO₃⁻

RN 145310-87-8 HCAPLUS

CN 1-Decanaminium, N-decyl-N,N-dimethyl-, bromide, mixt. with
1-[[[(2-aminoethoxy)hydroxyphosphinyl]oxy]methyl]-1,2-ethanediyl
di-(9Z)-9-octadecenoate (9CI) (CA INDEX NAME)

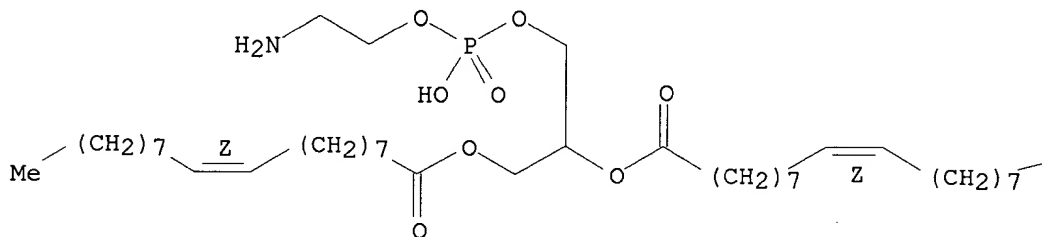
CM 1

CRN 2462-63-7

CMF C41 H78 N O8 P

Double bond geometry as shown.

PAGE 1-A



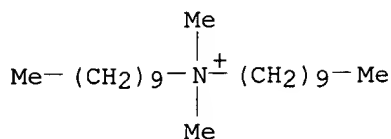
PAGE 1-B

Me

CM 2

CRN 2390-68-3

CMF C22 H48 N . Br

● Br⁻

lib and abstract for the above structures

AN 2001:730528 HCAPLUS
 DN 135:278003
 TI Compositions and methods for gene therapy
 IN Vogel, Jean-marie; Boschetti, Egisto
 PA Biosphere Medical Inc., USA
 SO PCT Int. Appl., 77 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM A61K009-00
 CC 63-5 (Pharmaceuticals)
 Section cross-reference(s): 8

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001072280	A2	20011004	WO 2001-US9618	20010323
	WO 2001072280	A3	20020131		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

PRAI US 2000-191902P P 20000324

AB The present invention relates to injectable compns. comprising biocompatible, swellable, substantially hydrophilic, non-toxic and substantially spherical polymeric material carriers which are capable of efficiently delivering bioactive therapeutic factor(s) phys. linked to a transfection agent for use in embolization gene therapy. The present invention further relates to methods of embolization gene therapy, particularly for the treatment of angiogenic and non-angiogenic-dependent diseases, using the injectable compns.

ST embolization gene therapy delivery polymer carrier

IT Lymphoma

(Burkitt's; compns. and methods for embolization gene therapy)

IT Bone, neoplasm

(Ewing's sarcoma; compns. and methods for embolization gene therapy)

IT Sarcoma

(Kaposi's; compns. and methods for embolization gene therapy)

IT Kidney, neoplasm

(Wilms'; compns. and methods for embolization gene therapy)

IT Leukemia

(acute lymphocytic; compns. and methods for embolization gene therapy)

IT Leukemia
 (acute myelogenous; compns. and methods for embolization gene therapy)

IT Angiogenic factors
 Growth inhibitors, animal
 RL: PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
 (angiogenic growth-inhibiting factors; compns. and methods for embolization gene therapy)

IT Polyelectrolytes
 (anionic; compns. and methods for embolization gene therapy)

IT Intestine
 (anus, carcinoma; compns. and methods for embolization gene therapy)

IT Astrocyte
 (astrocytoma; compns. and methods for embolization gene therapy)

IT Bladder
 Head
 Mammary gland
 Neck, anatomical
 Ovary, neoplasm
 Pancreas, neoplasm
 Prostate gland
 Testis
 (carcinoma; compns. and methods for embolization gene therapy)

IT Drug delivery systems
 (carriers; compns. and methods for embolization gene therapy)

IT Polyelectrolytes
 (cationic; compns. and methods for embolization gene therapy)

IT Uterus, neoplasm
 (cervix, carcinoma; compns. and methods for embolization gene therapy)

IT Leukemia
 (chronic myelocytic; compns. and methods for embolization gene therapy)

IT Intestine, neoplasm
 (colorectal carcinoma; compns. and methods for embolization gene therapy)

IT Angiogenesis
 Angiogenesis inhibitors
 Anti-inflammatory agents
 Antibacterial agents
 Antihistamines
 Antitumor agents
 Brain, neoplasm
 Drug delivery systems
 Drug targeting
 Embolism
 Gene targeting
 Gene therapy
 Genetic vectors
 Hodgkin's disease
 Kidney, neoplasm
 Liver, neoplasm
 Melanoma
 Multiple myeloma
 Neoplasm
 Particle size distribution
 Saponification
 Surgery
 Swelling, physical
 Syringes

Transformation, genetic
(compns. and methods for embolization gene therapy)

IT Antisense DNA
Antisense RNA
DNA
Polyanhydrides
Polynucleotides
Polysaccharides, biological studies
Polysiloxanes, biological studies
Quaternary ammonium compounds, biological studies
RNA
Ribozymes
RL: PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(compns. and methods for embolization gene therapy)

IT Imaging agents
(contrast; compns. and methods for embolization gene therapy)

IT Polyoxyalkylenes, biological studies
RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(crosslinked; compns. and methods for embolization gene therapy)

IT Polymers, biological studies
RL: PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(crosslinked; compns. and methods for embolization gene therapy)

IT Lymphoma
(diffuse large cell; compns. and methods for embolization gene therapy)

IT Embolism
(embolization; compns. and methods for embolization gene therapy)

IT Drug delivery systems
(emulsions; compns. and methods for embolization gene therapy)

IT Polymers, biological studies
RL: BPR (Biological process); BSU (Biological study, unclassified); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(gene carriers; compns. and methods for embolization gene therapy)

IT Leukemia
(hairy-cell; compns. and methods for embolization gene therapy)

IT Ribozymes
RL: PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(hammerhead; compns. and methods for embolization gene therapy)

IT Liver, neoplasm
(hepatoma; compns. and methods for embolization gene therapy)

IT Drug delivery systems
(implants; compns. and methods for embolization gene therapy)

IT Mitosis
(inhibitors; compns. and methods for embolization gene therapy)

IT Drug delivery systems
(injections; compns. and methods for embolization gene therapy)

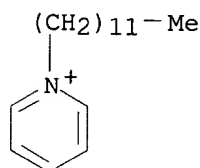
IT Polyesters, biological studies
RL: PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(lactic acid-based; compns. and methods for embolization gene therapy)

IT Lymphoma
(lymphoblastic; compns. and methods for embolization gene therapy)

IT Drug delivery systems

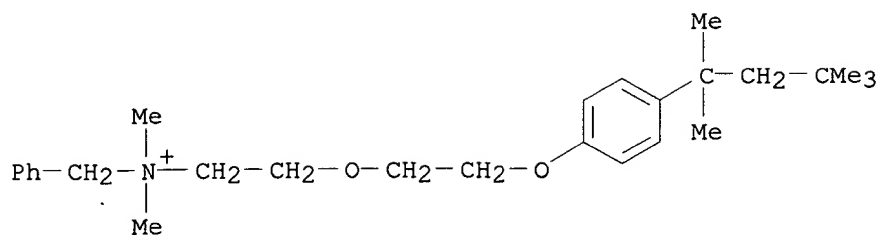
- (microparticles; compns. and methods for embolization gene therapy)
- IT Drug delivery systems
 - (microspheres; compns. and methods for embolization gene therapy)
- IT Lymphoma
 - (non-Hodgkin's; compns. and methods for embolization gene therapy)
- IT Lung, neoplasm
 - (non-small-cell carcinoma; compns. and methods for embolization gene therapy)
- IT Bone, neoplasm
 - (osteosarcoma; compns. and methods for embolization gene therapy)
- IT p53 (protein)
 - RL: PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
 - (polynucleotide encoding; compns. and methods for embolization gene therapy)
- IT Myoma
 - (rhabdomyosarcoma; compns. and methods for embolization gene therapy)
- IT Lung, neoplasm
 - (small-cell carcinoma; compns. and methods for embolization gene therapy)
- IT Animal tissue
 - (soft, sarcoma; compns. and methods for embolization gene therapy)
- IT Neoplasm
 - (solid; compns. and methods for embolization gene therapy)
- IT Polymers, biological studies
 - RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
 - (swellable; compns. and methods for embolization gene therapy)
- IT 7439-89-6, Iron, uses 7439-95-4, Magnesium, uses 7440-09-7, potassium, uses 7440-23-5, Sodium, uses 7440-66-6, Zinc, uses 7440-70-2, Calcium, uses 7664-41-7, Ammonia, uses
 - RL: NUU (Other use, unclassified); USES (Uses)
 - (compns. and methods for embolization gene therapy)
- IT 79-10-7D, Acrylic acid, esters 557-75-5D, Vinyl alcohol, copolymers 7446-81-3D, Sodium acrylate, polymers 9003-04-7, Sodium polyacrylate 24980-58-3, Acrylic acid-vinyl acetate copolymer 25969-89-5, Methyl maleate-vinyl acetate copolymer 107830-79-5, Acrylonitrile starch graft copolymer
 - RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
 - (compns. and methods for embolization gene therapy)
- IT 71-44-3, Spermine 124-20-9, Spermidine 557-75-5D, Vinyl alcohol, polymers 2462-63-7, Dope 4004-05-1, Dope 9002-98-6, Polyethylenimine 9003-01-4D, Polyacrylic acid, derivs. 9003-05-8D, Polyacrylamide, derivs. 24937-78-8, Poly(ethylene vinyl acetate) 25104-18-1, Polylysine 26023-30-3, Poly[oxy(1-methyl-2-oxo-1,2-ethanediyl)] 26100-51-6, Poly(lactic acid) 26913-06-4, Polyethylenimine 38000-06-5, Polylysine 124050-77-7, Transfectam 124076-29-5 127528-05-6 128835-92-7, Lipofectin 137056-72-5, dc-chol 144189-73-1, Dotap 145310-87-8, Transfectace
 - RL: PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
 - (compns. and methods for embolization gene therapy)
- IT 110-26-9, Methylene bis-acrylamide
 - RL: RCT (Reactant); RACT (Reactant or reagent)

- (compns. and methods for embolization gene therapy)
- IT 98085-27-9
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(contrast agent; compns. and methods for embolization gene therapy)
- IT 26426-80-2, Isobutylene-maleic anhydride copolymer
RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(cross-linked; compns. and methods for embolization gene therapy)
- IT 25322-68-3, Polyethylene oxide
RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(crosslinked; compns. and methods for embolization gene therapy)
- IT 97-90-5, Ethylene glycol dimethacrylate 109-17-1, Tetraethylene glycol dimethacrylate 2359-15-1, Methylene bis-methacrylamide 17831-71-9, Tetraethylene glycol diacrylate 26846-58-2, Pentaerythritol dimethacrylate 58477-85-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(crosslinking agent; compns. and methods for embolization gene therapy)
- L101 ANSWER 2 OF 16 HCAPLUS COPYRIGHT 2003 ACS
- IT 104-74-5 121-54-0
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(antibacterial agents; **softening agent compn.** for textile)
- RN 104-74-5 HCAPLUS
- CN Pyridinium, 1-dodecyl-, chloride (8CI, 9CI) (CA INDEX NAME)



● Cl⁻

- RN 121-54-0 HCAPLUS
- CN Benzenemethanaminium, N,N-dimethyl-N-[2-[2-[4-(1,1,3,3-tetramethylbutyl)phenoxy]ethoxy]ethyl]-, chloride (9CI) (CA INDEX NAME)



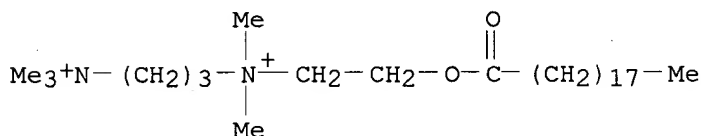
● Cl⁻

IT 351469-38-0P 351469-41-5P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(softening agent compn. for textile)

RN 351469-38-0 HCAPLUS

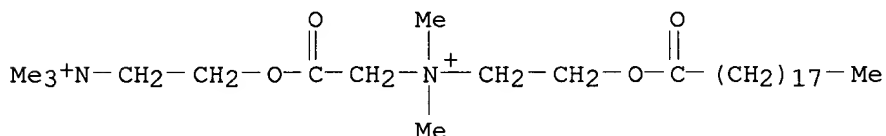
CN 1,3-Propanediaminium, N,N,N,N',N'-pentamethyl-N'-[2-[(1-oxononadecyl)oxy]ethyl]-, dichloride (9CI) (CA INDEX NAME)



● 2 Cl⁻

RN 351469-41-5 HCAPLUS

CN Ethanaminium, N,N-dimethyl-2-oxo-N-[2-[(1-oxononadecyl)oxy]ethyl]-2-[2-(trimethylammonio)ethoxy]-, dichloride (9CI) (CA INDEX NAME)



● 2 Cl⁻

AN 2001:541725 HCAPLUS

DN 135:138666

TI Softening agent composition for textile

IN Ushio, Noriaki; Hayashi, Hiromitsu; Ogura, Nobuyuki; Tagata, Shuji

PA Kao Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM D06M013-46

ICS A01N033-04; A01N033-12; A01N031-16; A01N037-34; A01N037-44;
A01N043-42; A01N043-52; A01N047-30; A01N047-44; A01N055-02;
A01N061-00; D06M101-02

CC 40-7 (Textiles and Fibers)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001200473	A2	20010727	JP 2000-9723	20000119
PRAI	JP 2000-9723		20000119		
OS	MARPAT 135:138666				
AB	The compn. comprises a compd. having quaternary ammonium or tert-amino groups, an ionic surfactant, and an antibacterial agent. Thus, a compn. was made from mainly a compd. prepd. by the reaction of Me monoethanolamine and acrylonitrile, then with HCHO, and stearic acid and ester with Me chloride; Na stearyl sulfate; and alkyl N+Me2CH2C6H5Cl.hivin..				
ST	textile softener quaternary ammonium chloride salt; sodium stearyl sulfate surfactant softener				
IT	Fatty acids, biological studies RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (coco; softening agent compn. for textile)				
IT	Surfactants (ionic; softening agent compn. for textile)				
IT	Antibacterial agents Softening agents (softening agent compn. for textile)				
IT	Quaternary ammonium compounds, uses RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (softening agent compn. for textile)				
IT	103-83-3D, N-alkyl of coconut oil fatty acid, chloride 104-74-5 121-54-0 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (antibacterial agents; softening agent compn. for textile)				
IT	822-16-2, Sodium stearate 1120-04-3, Sodium stearyl sulfate 34431-26-0 RL: TEM (Technical or engineered material use); USES (Uses) (ionic surfactants; softening agent compn. for textile)				
IT	141-21-9P 82136-26-3P RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent) (softening agent compn. for textile)				
IT	110-95-2DP, N-alkyl of tallow fatty acid, chloride 118516-73-7P 351469-38-0P 351469-41-5P 351469-46-0P RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (softening agent compn. for textile)				
IT	50-00-0, Formaldehyde, reactions 57-11-4, Stearic acid, reactions 74-87-3, Methyl chloride, reactions 106-89-8, Epichlorohydrin, reactions 107-13-1, Acrylonitrile, reactions 108-01-0, Dimethylethanolamine 109-83-1, Methyl ethanolamine 110-95-2, N,N,N',N'-Tetramethyl-1,3-propanediamine 111-41-1, N-Hydroxyethylethylenediamine 124-28-7,				

Stearyldimethylamine

RL: RCT (Reactant); RACT (Reactant or reagent)

(softening agent compn. for textile)

L101 ANSWER 3 OF 16 HCAPLUS COPYRIGHT 2003 ACS

IT 104-74-5, Laurylpyridinium chloride 7173-51-5,

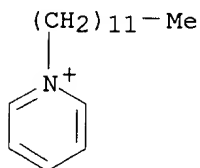
Didecyldimethylammonium chloride 112065-28-8 340723-65-1

RL: TEM (Technical or engineered material use); USES (Uses)

(deodorant antibacterial softeners contg. quaternary ammonium compds.)

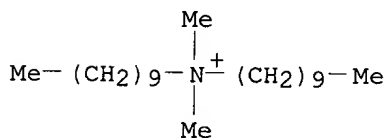
RN 104-74-5 HCAPLUS

CN Pyridinium, 1-dodecyl-, chloride (8CI, 9CI) (CA INDEX NAME)

● Cl⁻

RN 7173-51-5 HCAPLUS

CN 1-Decanaminium, N-decyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 112065-28-8 HCAPLUS

CN Ethanaminium, N,N-dimethyl-2-[[[(9Z)-1-oxo-9-octadecenyl]oxy]-N-[2-[[[(9Z)-1-oxo-9-octadecenyl]oxy]ethyl]-, methyl sulfate (9CI) (CA INDEX NAME)

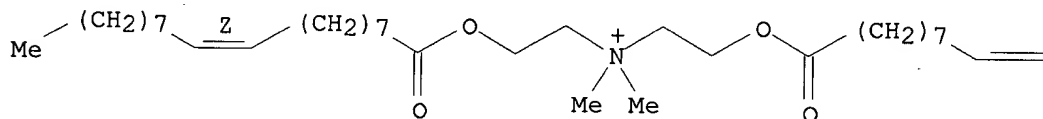
CM 1

CRN 85305-18-6

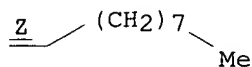
CMF C42 H80 N O4

Double bond geometry as shown.

PAGE 1-A



PAGE 1-B



CM 2

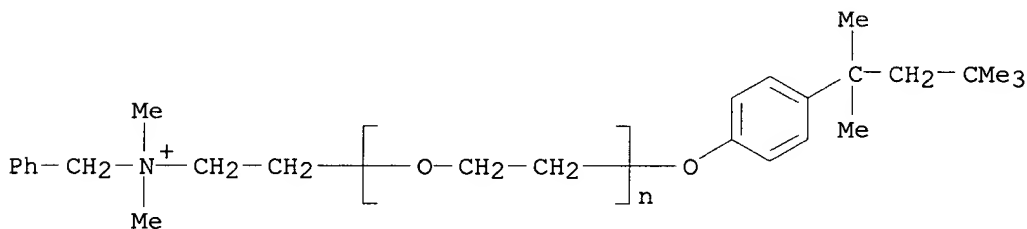
CRN 21228-90-0

CMF C H3 O4 S

Me-O-SO₃⁻

RN 340723-65-1 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-[2-[dimethyl(phenylmethyl)ammonio]ethyl]-
 .omega.-[4-(1,1,3,3-tetramethylbutyl)phenoxy]-, chloride (9CI) (CA INDEX
 NAME)

● Cl⁻

AN 2001:380861 HCAPLUS

DN 134:368633

TI **Softener compositions**

IN Hayashi, Hiromitsu; Yamaguchi, Noriko; Tagata, Shuji; Sugano, Ikuo

PA Kao Corporation, Japan

SO PCT Int. Appl., 26 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

IC ICM D06M013-463

CC 46-5 (Surface Active Agents and Detergents)

Section cross-reference(s): 40

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001036737	A1	20010525	WO 2000-JP7897	20001109
	W: CN, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
	JP 2001200476	A2	20010727	JP 2000-102428	20000404

KATHLEEN FULLER EIC 1700/PARKER LAW 308-4290

JP 2001303441 A2 20011031 JP 2000-114097 20000414
 EP 1154068 A1 20011114 EP 2000-974874 20001109

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO

PRAI JP 1999-323180 A 19991112
 JP 2000-102428 A 20000404
 JP 2000-114097 A 20000414
 WO 2000-JP7897 W 20001109

OS MARPAT 134:368633

AB Deodorant softeners contain (R1XR3)(R2YR4)N+R5R6 Z-, (R8WR9)R12N+R10R11 Z-, and a quaternary ammonium compd. having an antibacterial activity, wherein R1, R2, and R8 are C12-22 alkyl or alkenyl groups, X, Y and W are selected from CO2, CONR7, OCO, and NR7CO with either X or Y being CO2 or OCO, R7 is an H, C1-3 alkyl, or hydroxyalkyl, R3, R4, and R9 are C1-5 alkylenes, R5, R6, R10, and R11 are C1-2 alkyl or hydroxyalkyl groups, R12 is a C1-3 alkyl or C1-5-OH, and Z- is an anion. Thus, a softener for cotton sweaters contained (alkanoyloxyethyl)(alkylamidopropyl)dimethylammonium chloride 15, benzyldimethyltetradecylammonium chloride 5, polyethylene glycol C12 alkyl ether 2, Lunac S 50 1, Excel 150 1, ethylene glycol 3, alkylamicopropyl dimethylhydroxyethylammonium chloride 1.5, a silicone 0.1%, H2O, 100 ppm CaCl2, 10 ppm color, and 50 ppm perfumes.

ST deodorant antibacterial softener quaternary ammonium compd; cationic surfactant deodorant antibacterial softener; nonionic surfactant deodorant antibacterial softener; fatty acid surfactant deodorant antibacterial softener

IT Functional groups
 (alkoxycarbonyl groups; deodorant antibacterial softeners contg. quaternary ammonium compds.)

IT Surfactants
 (cationic; deodorant antibacterial softeners contg. quaternary ammonium compds.)

IT Amide group
 Antibacterial agents
 Deodorants
 Fabric softeners
 Sweat
 (deodorant antibacterial softeners contg. quaternary ammonium compds.)

IT Fatty acids, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (deodorant antibacterial softeners contg. quaternary ammonium compds.)

IT Quaternary ammonium compounds, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (di-Me; deodorant antibacterial softeners contg. quaternary ammonium compds.)

IT Surfactants
 (nonionic; deodorant antibacterial softeners contg. quaternary ammonium compds.)

IT 57-10-3, Palmitic acid, uses 57-11-4, Lunac S 50, uses 104-74-5
 , Laurylpyridinium chloride 139-08-2, Benzyldimethyltetradecylammonium chloride 143-07-7, Lauric acid, uses 7173-51-5,
 Didecyldimethylammonium chloride 9002-92-0, Polyethylene glycol lauryl ether 31587-78-7 112065-28-8 340723-65-1
 RL: TEM (Technical or engineered material use); USES (Uses)
 (deodorant antibacterial softeners contg. quaternary ammonium compds.)

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Hoechst Ag; JP 5615472 A
- (2) Hoechst Ag; EP 22555 A 1980 HCAPLUS

- (3) Kao Corporation; JP 03287867 A 1991 HCAPLUS
 (4) Kao Corporation; JP 09137379 A 1997 HCAPLUS
 (5) Lion Corporation; JP 598571 A 1993
 (6) Nof Corporation; JP 1161640 A 1999

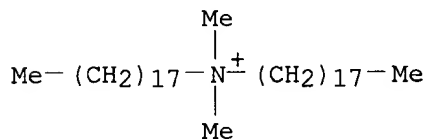
L101 ANSWER 4 OF 16 HCAPLUS COPYRIGHT 2003 ACS

IT 107-64-2 32208-04-1

RL: TEM (Technical or engineered material use); USES (Uses)
 (softening agent **compn.** for wearing apparels)

RN 107-64-2 HCAPLUS

CN 1-Octadecanaminium, N,N-dimethyl-N-octadecyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

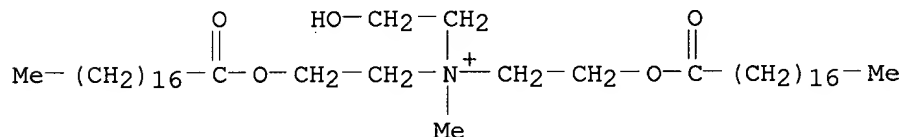
RN 32208-04-1 HCAPLUS

CN Ethanaminium, N-(2-hydroxyethyl)-N-methyl-2-[(1-oxooctadecyl)oxy]-N-[2-[(1-oxooctadecyl)oxy]ethyl]-, methyl sulfate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 45321-40-2

CMF C43 H86 N O5



CM 2

CRN 21228-90-0

CMF C H3 O4 S

Me-O-SO₃⁻

AN 2000:216256 HCAPLUS

DN 132:252426

TI **Softening agent composition** for wearing apparels

IN Azuma, Takaya; Inoue, Takayuki

PA Nippon Oil and Fats Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

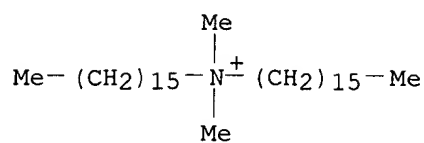
IC ICM D06M013-46

ICS C11D003-26; C11D003-34; D06M013-272

CC 40-9 (Textiles and Fibers)

FAN.CNT 1

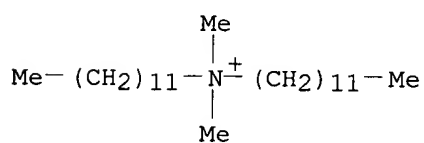
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000096440	A2	20000404	JP 1998-266010	19980921
PRAI	JP 1998-266010		19980921		
OS	MARPAT 132:252426				
AB	The compn. contains (a) 5-40% quaternary ammonium salts and (b) 0.1-10% M1O2CRSCH(CH2CO2M2)CO2M3 (R = C1-30 alkylene; M1-3 = H, univalent metal atom, NH4, or org. substituted-NH4). A compn. contained (C18H37)2N+Me2.Cl- 10, NaO2CC2H4SCH(CH2CO2Na)CO2Na 4, CaCl2 0.2, ethylene glycol 7, and water to 100%.				
ST	softening agent wearing apparel; quaternary ammonium salt softener fabric				
IT	Fabric finishing (agents; softening agent compn. for wearing apparels)				
IT	Surfactants (nonionic; softening agent compn. for wearing apparels)				
IT	Clothing Fabric softeners (softening agent compn. for wearing apparels)				
IT	Quaternary ammonium compounds, uses RL: TEM (Technical or engineered material use); USES (Uses) (softening agent compn. for wearing apparels)				
IT	107-64-2 32208-04-1 50454-07-4 64674-97-1 85758-74-3 262428-00-2 RL: TEM (Technical or engineered material use); USES (Uses) (softening agent compn. for wearing apparels)				
L101	ANSWER 5 OF 16 HCAPLUS COPYRIGHT 2003 ACS				
IT	1812-53-9D , Dipalmityl dimethyl ammonium chloride, complexes with benzoate or salicylate 3401-74-9D , Dilauryl dimethyl ammonium chloride, complexes with benzoate or salicylate 10108-91-5D , Dimyristyl dimethyl ammonium chloride, complexes with benzoate or salicylate 249618-59-5 , EPSC 5294-165, biological studies RL: BUU (Biological use, unclassified); MOA (Modifier or additive use); NUU (Other use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses) (dialkylquat and trialkylquat benzoate and salicylate salts as emollients, lubricants and hydrophobes)				
RN	1812-53-9 HCAPLUS				
CN	1-Hexadecanaminium, N-hexadecyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)				



● Cl⁻

RN 3401-74-9 HCAPLUS

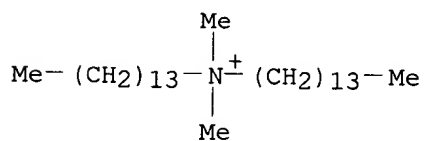
CN 1-Dodecanaminium, N-dodecyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

RN 10108-91-5 HCAPLUS

CN 1-Tetradecanaminium, N,N-dimethyl-N-tetradecyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

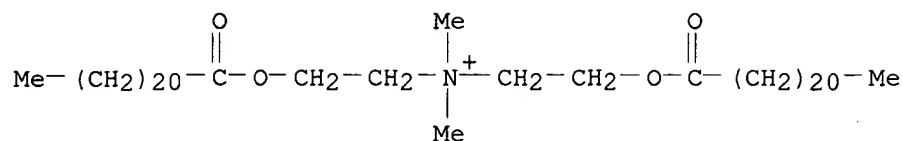
RN 249618-59-5 HCAPLUS

CN Ethanaminium, N,N-dimethyl-2-[(1-oxodocosyl)oxy]-N-[2-[(1-oxodocosyl)oxy]ethyl]-, salt with 2-hydroxybenzoic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 249618-58-4

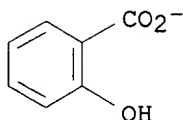
CMF C50 H100 N O4



CM 2

CRN 63-36-5

CMF C7 H5 O3



AN 1999:722745 HCAPLUS
 DN 131:341765
 TI Dialkylquat and trialkylquat benzoate and salicylate salts for cosmetic, agrochemical, and other applications
 IN Zhu, Shawn
 PA Witco Corporation, USA
 SO Eur. Pat. Appl., 14 pp.
 CODEN: EPXXDW

DT Patent

LA English

IC ICM C07C211-63

ICS A61K007-48; C07C065-10; C07C063-08; C10M105-28; C10M105-58;
 A01N033-12

CC 62-4 (Essential Oils and Cosmetics)
 Section cross-reference(s): 5, 10, 46

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 955288	A2	19991110	EP 1999-108329	19990428
	EP 955288	A3	20010321		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 11349528	A2	19991221	JP 1999-122755	19990428
PRAI	US 1998-72818	A	19980505		

OS MARPAT 131:341765

AB Di- and trialkylquaternary benzoate and salicylate salts as emollients, lubricants and hydrophobes are described. The quat compds. have very high water repellency and they can greatly reduce the friction of any surfaces in aq. environment. Their multifunctional properties suggest their feasibility for multifunctional applications, such as (1) in skin care, e.g., in hand lotions and as lubricant for condoms or in spermicidal formulations, (2) as bioefficacy enhancers for agrochems., (3) as lubricants, esp. in aq. environment, (4) in fabric softeners, (5) as automobile oil additives, (6) in bathroom mildew preventers, (7) paper debonders, and (8) as hydrophobes in car spray formulations. E.g., melting the mixt. of 3 g of salicylic acid and 7 g of Varisoft TA-100 (distearyl di-Me ammonium chloride) resulted in a solid at room temp.

This quat-salicylate complex was very substantive to skin. It gave very good emolliency and silky/slippery feel to skin when applied with propylene glycol, while the starting components, salicylic acid and Varisoft TA-100 alone did not show same emolliency and skin feel. When 10-20% by wt. of this complex was stirred in water, the complex dispersed without gumming up, indicating that the material can be formulated successfully into lotions and creams. Dispersions in water at several pH values in the range of 1-14, when applied to the skin and rinsed, gave the same skin feel. The silky/slippery skin feels also existed when the quat-salicylate complex was applied to skin in mixt. with iso-Pr alc., ethanol, glycerin, homosalate, or mineral oil.

- ST quaternary ammonium benzoate emollient hydrophobe lubricant; salicylate quaternary ammonium emollient hydrophobe lubricant; cosmetic quaternary ammonium benzoate salicylate; agrochem enhancer quaternary ammonium benzoate salicylate; fabric softener quaternary ammonium benzoate salicylate; automobile oil quaternary ammonium benzoate salicylate; water repellent quaternary ammonium benzoate salicylate
- IT Skin preparations (pharmaceutical)
(astringents; skin compns. contg. dialkylquat and trialkylquat benzoate and salicylate salts as emollients, lubricants and hydrophobes)
- IT Quaternary ammonium compounds, biological studies
RL: BUU (Biological use, unclassified); MOA (Modifier or additive use); NUU (Other use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(bis(hydrogenated tallow alkyl)dimethyl, chlorides, reaction products with benzoate or salicylate; dialkylquat and trialkylquat benzoate and salicylate salts as emollients, lubricants and hydrophobes)
- IT Ships
(boats; compns. contg. dialkylquat and trialkylquat benzoate and salicylate salts for reducing friction)
- IT Antibacterial agents
Disinfectants
Fungicides
Herbicides
Pesticide formulations
Pesticides
Softening agents
(compns. contg. dialkylquat and trialkylquat benzoate and salicylate salts)
- IT Ropes
(compns. contg. dialkylquat and trialkylquat benzoate and salicylate salts for reducing friction)
- IT Contraceptives
(condoms; compns. contg. dialkylquat and trialkylquat benzoate and salicylate salts as emollients, lubricants and hydrophobes)
- IT Cosmetics
Lubricants
Suntanning agents
Water-resistant materials
(dialkylquat and trialkylquat benzoate and salicylate salts as emollients, lubricants and hydrophobes)
- IT Quaternary ammonium compounds, biological studies
RL: BUU (Biological use, unclassified); MOA (Modifier or additive use); NUU (Other use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(dicoco alkyl dimethyl, bromides, reaction products with benzoate or salicylate; dialkylquat and trialkylquat benzoate and salicylate salts as emollients, lubricants and hydrophobes)

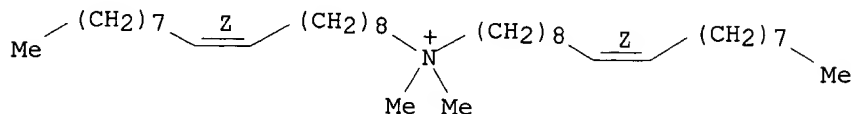
- IT Quaternary ammonium compounds, biological studies
RL: BUU (Biological use, unclassified); MOA (Modifier or additive use);
NUU (Other use, unclassified); PRP (Properties); BIOL (Biological study);
USES (Uses)
(dicoco alkyldimethyl, chlorides, reaction products with benzoate or
salicylate; dialkylquat and trialkylquat benzoate and salicylate salts
as emollients, lubricants and hydrophobes)
- IT Quaternary ammonium compounds, biological studies
RL: BUU (Biological use, unclassified); MOA (Modifier or additive use);
NUU (Other use, unclassified); PRP (Properties); BIOL (Biological study);
USES (Uses)
(dimethylditallow alkyl, Me sulfates, reaction products with benzoate
or salicylate; dialkylquat and trialkylquat benzoate and salicylate
salts as emollients, lubricants and hydrophobes)
- IT Quaternary ammonium compounds, biological studies
RL: BUU (Biological use, unclassified); MOA (Modifier or additive use);
NUU (Other use, unclassified); PRP (Properties); BIOL (Biological study);
USES (Uses)
(dimethylditallow alkyl, chlorides, reaction products with benzoate or
salicylate; dialkylquat and trialkylquat benzoate and salicylate salts
as emollients, lubricants and hydrophobes)
- IT Quaternary ammonium compounds, biological studies
RL: BUU (Biological use, unclassified); MOA (Modifier or additive use);
NUU (Other use, unclassified); PRP (Properties); BIOL (Biological study);
USES (Uses)
(dimethylditallow alkyl, ethoxylated, chlorides, reaction products with
benzoate or salicylate; dialkylquat and trialkylquat benzoate and
salicylate salts as emollients, lubricants and hydrophobes)
- IT Quaternary ammonium compounds, biological studies
RL: BUU (Biological use, unclassified); MOA (Modifier or additive use);
NUU (Other use, unclassified); PRP (Properties); BIOL (Biological study);
USES (Uses)
(dimethylditallow alkyl, nitrates, reaction products with benzoate or
salicylate; dialkylquat and trialkylquat benzoate and salicylate salts
as emollients, lubricants and hydrophobes)
- IT Quaternary ammonium compounds, biological studies
RL: BUU (Biological use, unclassified); MOA (Modifier or additive use);
NUU (Other use, unclassified); PRP (Properties); BIOL (Biological study);
USES (Uses)
(dipropylditallow alkyl, phosphates, reaction products with benzoate or
salicylate; dialkylquat and trialkylquat benzoate and salicylate salts
as emollients, lubricants and hydrophobes)
- IT Cosmetics
(emollients; dialkylquat and trialkylquat benzoate and salicylate salts
as emollients, lubricants and hydrophobes)
- IT Sporting goods
(fishing lines; compns. contg. dialkylquat and trialkylquat benzoate
and salicylate salts for reducing friction)
- IT Sporting goods
(fishing lures; compns. contg. dialkylquat and trialkylquat benzoate
and salicylate salts for reducing friction)
- IT Coating materials
(hydrophobic; dialkylquat and trialkylquat benzoate and salicylate
salts as emollients, lubricants and hydrophobes)
- IT Carboxylic acids, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)
(hydroxy; skin compns. contg. dialkylquat and trialkylquat benzoate and

- salicylate salts as emollients, lubricants and hydrophobes)
- IT Lubricating oils
(lubricating compn. contg. dialkylquat and trialkylquat benzoate and salicylate salts free of lithium and nitrate compds.)
- IT Plant (Embryophyta)
(plant compns. contg. dialkylquat and trialkylquat benzoate and salicylate salts)
- IT Quaternary ammonium compounds, biological studies
RL: BUU (Biological use, unclassified); MOA (Modifier or additive use); NUU (Other use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(reaction products, with benzoate or salicylate; dialkylquat and trialkylquat benzoate and salicylate salts as emollients, lubricants and hydrophobes)
- IT Washing
(rinsing; rinsing formulation for automatic car wash contg. hydrophobes comprising dialkylquat and trialkylquat benzoate and salicylate salts)
- IT Anesthetics
Anti-inflammatory agents
Antibiotics
Bath preparations
Chelating agents
Deodorants
Dyes
Gums and Mucilages
Humectants
Perfumes
Pigments, nonbiological
Preservatives
Sequestering agents
Sunscreens
Thickening agents
Wound healing promoters
(skin compns. contg. dialkylquat and trialkylquat benzoate and salicylate salts as emollients, lubricants and hydrophobes)
- IT Essential oils
Resins
Vitamins
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(skin compns. contg. dialkylquat and trialkylquat benzoate and salicylate salts as emollients, lubricants and hydrophobes)
- IT Cosmetics
(skin-lightening; skin compns. contg. dialkylquat and trialkylquat benzoate and salicylate salts as emollients, lubricants and hydrophobes)
- IT Amines, biological studies
RL: BUU (Biological use, unclassified); MOA (Modifier or additive use); NUU (Other use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(tertiary, reaction products, with benzoate or salicylate; dialkylquat and trialkylquat benzoate and salicylate salts as emollients, lubricants and hydrophobes)
- IT Quaternary ammonium compounds, biological studies
RL: BUU (Biological use, unclassified); MOA (Modifier or additive use); NUU (Other use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(tetraalkyl, bis(hydrogenated tallow amidoethyl) di-Me, chlorides,

- reaction products with benzoate or salicylate; dialkylquat and trialkylquat benzoate and salicylate salts as emollients, lubricants and hydrophobes)
- IT Quaternary ammonium compounds, biological studies
RL: BUU (Biological use, unclassified); MOA (Modifier or additive use); NUU (Other use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(tetraalkyl, bis(hydrogenated tallow amidoethyl), ethoxylated, chlorides, reaction products with benzoate or salicylate; dialkylquat and trialkylquat benzoate and salicylate salts as emollients, lubricants and hydrophobes)
- IT Drug delivery systems
(topical; skin compns. contg. dialkylquat and trialkylquat benzoate and salicylate salts as emollients, lubricants and hydrophobes)
- IT 54-21-7D, Sodium salicylate, reaction products with quaternary ammonium compds. 65-85-0D, Benzoic acid, salts, reaction products with quaternary ammonium compds., biological studies 69-72-7D, Salicylic acid, salts, reaction products with quaternary ammonium compds. **1812-53-9D**, Dipalmityl dimethyl ammonium chloride, complexes with benzoate or salicylate **3401-74-9D**, Dilauryl dimethyl ammonium chloride, complexes with benzoate or salicylate **10108-91-5D**, Dimyristyl dimethyl ammonium chloride, complexes with benzoate or salicylate 16841-14-8, Kemamine Q 2802C 51145-31-4, Varisoft TC-90 249618-56-2, Varisoft 432 PPG, biological studies 249618-57-3, Varisoft TA 100, biological studies **249618-59-5**, EPSC 5294-165, biological studies
RL: BUU (Biological use, unclassified); MOA (Modifier or additive use); NUU (Other use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(dialkylquat and trialkylquat benzoate and salicylate salts as emollients, lubricants and hydrophobes)
- IT 7439-93-2, Lithium, miscellaneous 14797-55-8, Nitrate, miscellaneous
RL: MSC (Miscellaneous)
(lubricating compn. contg. dialkylquat and trialkylquat benzoate and salicylate salts free of lithium and nitrate compds.)
- IT 82853-33-6, Varisoft 110
RL: BUU (Biological use, unclassified); MOA (Modifier or additive use); NUU (Other use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(reaction products with benzoate or salicylate; dialkylquat and trialkylquat benzoate and salicylate salts as emollients, lubricants and hydrophobes)
- IT 56-81-5, 1,2,3-Propanetriol, biological studies 57-55-6, 1,2-Propanediol, biological studies 64-17-5, Ethanol, biological studies 67-63-0, Isopropyl alcohol, biological studies 118-56-9, Homosalate
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(skin compns. contg. dialkylquat and trialkylquat benzoate and salicylate salts as emollients, lubricants and hydrophobes)
- L101 ANSWER 6 OF 16 HCAPLUS COPYRIGHT 2003 ACS
- IT **7212-69-3**, Dioleyldimethylammonium chloride **206555-08-0**
RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
(fabric softener application at high levels to cotton and/or cotton blended fabric for improved softening, antistatic and wear benefits, color maintenance, fiber integrity)
- RN 7212-69-3 HCAPLUS

CN 9-Octadecen-1-aminium, N,N-dimethyl-N-(9Z)-9-octadecenyl-, chloride, (9Z)-
(9CI) (CA INDEX NAME)

Double bond geometry as shown.



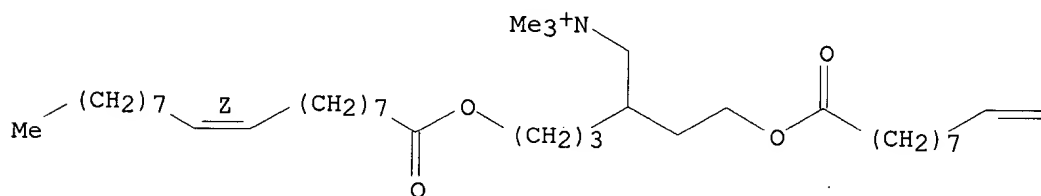
● Cl⁻

RN 206555-08-0 HCAPLUS

CN 1-Pentanaminium, N,N,N-trimethyl-5-[[(9Z)-1-oxo-9-octadecenyl]oxy]-2-[2-
[[(9Z)-1-oxo-9-octadecenyl]oxy]ethyl]-, chloride (9CI) (CA INDEX NAME)

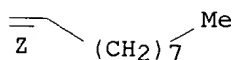
Double bond geometry as shown.

PAGE 1-A



● Cl⁻

PAGE 1-B



AN 1999:704975 HCAPLUS

DN 131:311938

TI Fabric **softener compositions** applied at high levels to
cotton and/or cotton blended fabric

IN Trinh, Toan; Miller, Ronald Joseph, Jr.; Desmarais, Maureen Higgins; Wahl,
Error Hoffmann; Corona, Alessandro, III; Owen, Richard Thomas; Conrad,
Kathleen Joan; Oler, Chad James; Demeyere, Hugo Jean Marie; Okamoto,
Mitsuyo

PA Procter and Gamble Co., USA

SO U.S., 30 pp., Cont.-in-part of Appl. No. PCT/US97/18933.
CODEN: USXXAM

DT Patent

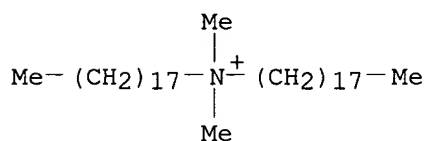
LA English
 IC C11D001-62
 NCL 510515000
 CC 46-5 (Surface Active Agents and Detergents)
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5977055	A	19991102	US 1998-13794	19980126
	WO 9817757	A2	19980430	WO 1997-US18933	19971021
	W: BR, CA, CN, JP, MX, US				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
PRAI	US 1996-28906P	P	19961021		
	WO 1997-US18933	A2	19971021		
OS	MARPAT 131:311938				
AB	Highly unsatd. fabric softener active quaternary ammonium compds., preferably contg. ester linkages, are used at .gtorsim.3 g of fabric softener active/kg fabric for improved softening, antistatic benefits, wear benefits, color maintenance, without unacceptable oily/greasy feel and/or unacceptable rewettability. The actives have max. amt. of active contg. C18:3 fatty acyl groups on fabric .ltorsim.2500 ppm. A fabric softener compn. contains dioleyldimethylammonium chloride.				
ST	fabric softener fade resistance; softener fabric care benefit color maintenance; quaternary ammonium compd fabric softener				
IT	Fabric softeners (fabric softener application at high levels to cotton and/or cotton blended fabric for improved softening, antistatic and wear benefits, color maintenance, fiber integrity)				
IT	Quaternary ammonium compounds, uses RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses) (tetraalkyl, (di)alkyldimethylammonium chloride; fabric softener application at high levels to cotton and/or cotton blended fabric for improved softening, antistatic and wear benefits, color maintenance, fiber integrity)				
IT	Quaternary ammonium compounds, uses RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses) (tetraalkyl, fatty ester of bis(N-hydroxyethyl) dimethylammonium chloride; fabric softener application at high levels to cotton and/or cotton blended fabric for improved softening, antistatic and wear benefits, color maintenance, fiber integrity)				
IT	7212-69-3, Dioleyldimethylammonium chloride 10450-69-8, Oleyltrimethylammonium chloride 63441-26-9 70206-24-5, Varisoft 3690 72403-37-3 84924-22-1, Diisostearyldimethylammonium chloride 92888-37-4, Varisoft 222LT 206555-08-0 RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses) (fabric softener application at high levels to cotton and/or cotton blended fabric for improved softening, antistatic and wear benefits, color maintenance, fiber integrity)				
RE.CNT	4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD				
RE					
	(1) Bacon; US 5500138 1996 HCAPLUS				
	(2) Bacon; US 5652206 1997 HCAPLUS				
	(3) Bruhnke; US 5770557 1998 HCAPLUS				
	(4) Trinh; US 5804219 1998 HCAPLUS				

L101 ANSWER 7 OF 16 HCAPLUS COPYRIGHT 2003 ACS

IT 107-64-2, Dimethyldistearylammonium chloride 148000-42-4
151955-38-3RL: PRP (Properties); TEM (Technical or engineered material use); USES
(Uses)(fabric **softener compns.** contg. water-insol.**softeners** and di-Me silicone for imparting improved softness
and smoothness to laundered fabrics)

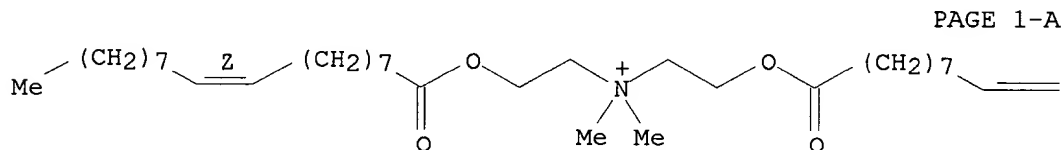
RN 107-64-2 HCAPLUS

CN 1-Octadecanaminium, N,N-dimethyl-N-octadecyl-, chloride (9CI) (CA INDEX
NAME)● Cl⁻

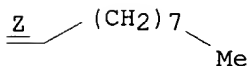
RN 148000-42-4 HCAPLUS

CN Ethanaminium, N,N-dimethyl-2-[[(9Z)-1-oxo-9-octadecenyl]oxy]-N-[2-[[(9Z)-1-oxo-9-octadecenyl]oxy]ethyl]-, chloride (9CI) (CA INDEX NAME)

Double bond geometry as shown.

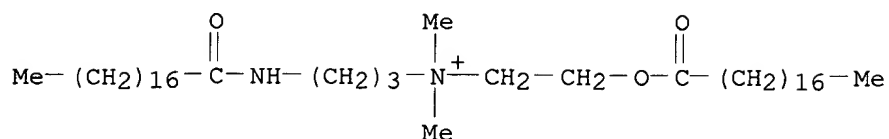
● Cl⁻

PAGE 1-B



RN 151955-38-3 HCAPLUS

CN 1-Propanaminium, N,N-dimethyl-3-[(1-oxooctadecyl)amino]-N-[2-[(1-oxooctadecyl)oxy]ethyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

AN 1998:535373 HCAPLUS
 DN 129:218279
 TI Fabric **softener compositions** for imparting improved
softness and smoothness to laundered fabrics
 IN Takahashi, Akira; Nikame, Shuichi
 PA Lion Corp., Japan
 SO Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM D06M013-325
 ICS D06M015-643
 CC 46-5 (Surface Active Agents and Detergents)

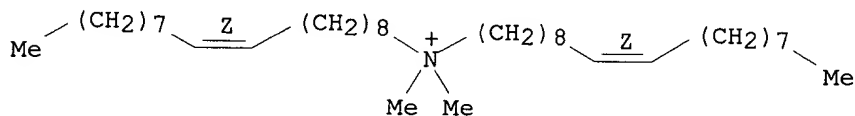
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10219567	A2	19980818	JP 1997-18692	19970131
PRAI	JP 1997-18692		19970131		

AB The **softener compns.** comprise (A) water-insol.
softening agents and (B) di-Me silicone (I) emulsions prepd. by
 forming liq. crystals from water-insol. softening agents, mixing the liq.
 crystals with I, and mixing the compns. with H₂O to form emulsions with
 av. particle diam. .ltoreq.0.5 .mu.m. A cotton towel was laundered with a
 detergent, rinsed, treated with an aq. dispersion contg. 200 ppm
softener compn. contg. 13% dimethyldistearyl chloride
 (II) and 2% emulsion (av. particle diam. 0.4-0.2 .mu.m) contg. 10:1 mixt.
 of I with viscosity at 25.degree. 10,000 cSt and II and dried to give a
 towel exhibiting softness rating (+2 excellent compared to control fabric,
 -2 poor compared to control fabric) +1 and smoothness rating +2.
 ST fabric smoothness **softener compn**; polydimethylsilicone
 quaternary ammonium compd fabric softener; dimethyldistearyl chloride
 polydimethylsilicone fabric **softener compn**; laundered
 garment smoothness fabric **softener compn**; silicone
 quaternary ammonium compd fabric softener
 IT Textiles
 (cotton; fabric softeners contg. water-insol. softeners and di-Me
 silicone for imparting improved softness and smoothness to laundered
 fabrics)
 IT Clothing
 Fabric **softeners**
 (fabric **softener compns.** contg. water-insol.
softeners and di-Me silicone for imparting improved softness
 and smoothness to laundered fabrics)
 IT Polysiloxanes, uses
 RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or
 engineered material use); USES (Uses)

- (fabric **softener compns.** contg. water-insol. **softeners** and di-Me silicone for imparting improved softness and smoothness to laundered fabrics)
- IT Amines, uses
Quaternary ammonium compounds, uses
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(fabric **softener compns.** contg. water-insol. **softeners** and di-Me silicone for imparting improved softness and smoothness to laundered fabrics)
- IT Laundering
(fabric softeners contg. water-insol. softeners and di-Me silicone for imparting improved softness and smoothness to laundered fabrics)
- IT 9016-00-6, Dimethylsilanediol homopolymer, sru 31900-57-9, Dimethylsilanediol homopolymer
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(fabric **softener compns.** contg. water-insol. **softeners** and di-Me silicone for imparting improved softness and smoothness to laundered fabrics)
- IT 107-64-2, Dimethyldistearylammonium chloride 148000-42-4 151955-38-3 151955-40-7
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(fabric **softener compns.** contg. water-insol. **softeners** and di-Me silicone for imparting improved softness and smoothness to laundered fabrics)
- L101 ANSWER 8 OF 16 HCAPLUS COPYRIGHT 2003 ACS
- IT 7212-69-3 206555-08-0
RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
(fabric softener application at high levels to cotton and/or cotton blended fabric for improved softening and antistatic and wear benefits and color maintenance and fiber integrity)
- RN 7212-69-3 HCAPLUS
- CN 9-Octadecen-1-aminium, N,N-dimethyl-N-(9Z)-9-octadecenyl-, chloride, (9Z)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.

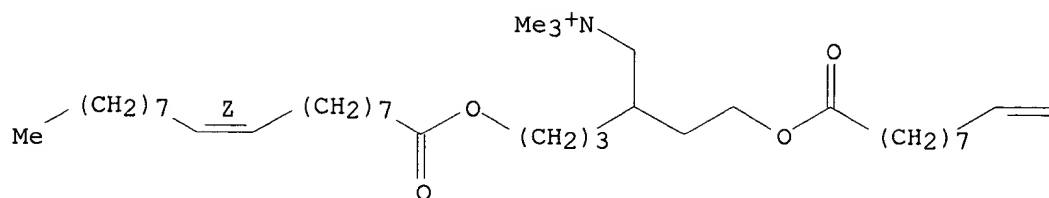


● Cl⁻

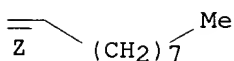
- RN 206555-08-0 HCAPLUS
- CN 1-Pentanaminium, N,N,N-trimethyl-5-[[[(9Z)-1-oxo-9-octadecenyl]oxy]-2-[2-[[[(9Z)-1-oxo-9-octadecenyl]oxy]ethyl]-], chloride (9CI) (CA INDEX NAME)

Double bond geometry as shown.

PAGE 1-A

● Cl⁻

PAGE 1-B

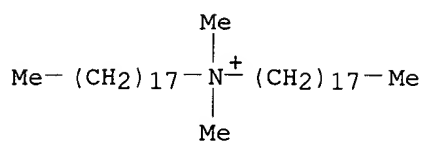


AN 1998:268583 HCAPLUS
 DN 128:309714
 TI Fabric softener application at high levels to cotton and/or cotton blended fabric and softener packages
 IN Wahl, Errol Hoffman; Trinh, Toan; Corona, Alessandro, III; Owen, Richard Thomas; Conrad, Kathleen Joan; Oler, Chad James; Des Marais, Maureen Higgins; Miller, Ronald Joseph, Jr.
 PA Procter & Gamble Co., USA; Wahl, Errol Hoffman; Trinh, Toan; Corona, Alessandro, III; Owen, Richard Thomas; Conrad, Kathleen Joan; Oler, Chad James; Des Marais, Maureen Higgins; Miller, Ronald Joseph, Jr.
 SO PCT Int. Appl., 77 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM Cl1D001-62
 CC 46-5 (Surface Active Agents and Detergents)
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9817757	A2	19980430	WO 1997-US18933	19971021
	W: BR, CA, CN, JP, MX, US				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP	932656	A2	19990804	EP 1997-911817	19971021
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
BR	9712638	A	19991026	BR 1997-12638	19971021
CN	1241205	A	20000112	CN 1997-180842	19971021
JP	2000505159	T2	20000425	JP 1998-519550	19971021
US	5977055	A	19991102	US 1998-13794	19980126
PRAI	US 1996-28906P	P	19961021		
	WO 1997-US18933	W	19971021		
OS	MARPAT 128:309714				
AB	Highly unsatd. fabric softener active quaternary ammonium compds.,				

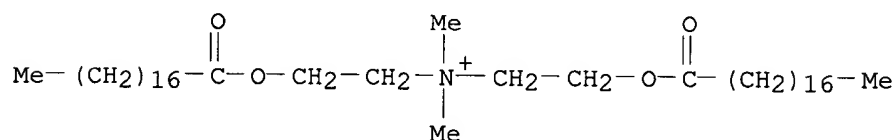
preferably contg. ester linkages, are used at .gtorsim.3 g of fabric softener active/kg fabric (.gtorsim.150%) to provide improved softening, antistatic benefits, wear benefits, color maintenance, etc., without unacceptable oily/greasy feel and/or unacceptable rewettability. Such a fabric **softener compn.** contains dioleyldimethylammonium chloride.

- ST quaternary ammonium compd **softener compn**; diester quaternary ammonium softener; cotton fabric **softener compn** high level; rinse added fabric softener
- IT Quaternary ammonium compounds, uses
RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
(dialkyldimethyl, chlorides; fabric softener application at high levels to cotton and/or cotton blended fabric for improved softening and antistatic and wear benefits and color maintenance and fiber integrity)
- IT Fabric softeners
(fabric softener application at high levels to cotton and/or cotton blended fabric for improved softening and antistatic and wear benefits and color maintenance and fiber integrity)
- IT Quaternary ammonium compounds, uses
RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
(tetraalkyl, alkyldimethyl, chlorides; fabric softener application at high levels to cotton and/or cotton blended fabric for improved softening and antistatic and wear benefits and color maintenance and fiber integrity)
- IT Quaternary ammonium compounds, uses
RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
(tetraalkyl, bis(N-hydroxyethyl) di-Me, chlorides, fatty esters; fabric softener application at high levels to cotton and/or cotton blended fabric for improved softening and antistatic and wear benefits and color maintenance and fiber integrity)
- IT **7212-69-3** 10450-69-8 63441-26-9 70206-24-5 72403-37-3
84924-22-1 92888-37-4 **206555-08-0**
RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
(fabric softener application at high levels to cotton and/or cotton blended fabric for improved softening and antistatic and wear benefits and color maintenance and fiber integrity)
- L101 ANSWER 9 OF 16 HCAPLUS COPYRIGHT 2003 ACS
- IT **107-64-2**, Dimethyldistearylammonium chloride **67846-68-8**
119191-49-0
RL: NUU (Other use, unclassified); USES (Uses)
(liq. **softener compns.** with good prevention of color fading during rinsing)
- RN 107-64-2 HCAPLUS
- CN 1-Octadecanaminium, N,N-dimethyl-N-octadecyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

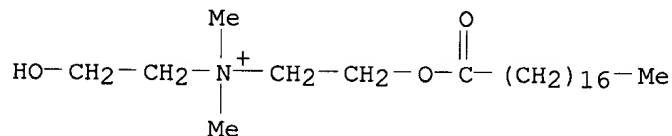
RN 67846-68-8 HCAPLUS

CN Ethanaminium, N,N-dimethyl-2-[(1-oxooctadecyl)oxy]-N-[2-[(1-oxooctadecyl)oxy]ethyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 119191-49-0 HCAPLUS

CN Ethanaminium, 2-hydroxy-N,N-dimethyl-N-[2-[(1-oxooctadecyl)oxy]ethyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

AN 1998:28449 HCAPLUS

DN 128:142367

TI Liquid **softener compositions** with good prevention of color fading during rinsing

IN Kurose, Kenichi; Nihei, Shuichi; Ota, Seiichi

PA Lion Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 13 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

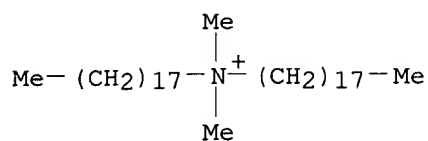
IC ICM D06M013-46

ICS D06M013-325

CC 46-5 (Surface Active Agents and Detergents)

FAN.CNT 1

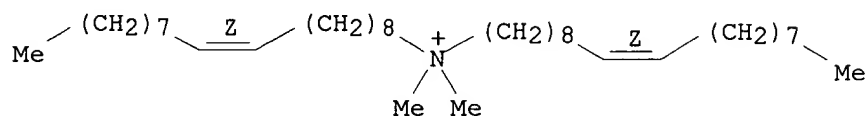
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10001869	A2	19980106	JP 1996-150808	19960612
PRAI	JP 1996-150808		19960612		
OS	MARPAT 128:142367				
AB	The title comps. contain (A) tertiary amines having long-chain hydrocarbon group(s), their neutralization products or quaternization products or mixts. thereof, as softener base and (B) primary or secondary amine R1R2NH (R1, R2 = H, C1-12 alkyl, alkenyl, hydroxyalkyl, hydroxyalkenyl, excluding R1 = R2 = H), their neutralization products, or mixts. thereof. A compn. used on green shirts fabric contained 15% distearyldimethylammonium chloride and 3% methanamine.				
ST	liq softener quaternary ammonium amine				
IT	Softening agents (liq. softener comps. with good prevention of color fading during rinsing)				
IT	Quaternary ammonium compounds, uses RL: NUU (Other use, unclassified); USES (Uses) (liq. softener comps. with good prevention of color fading during rinsing)				
IT	Amines, uses RL: NUU (Other use, unclassified); USES (Uses) (primary; liq. softener comps. with good prevention of color fading during rinsing)				
IT	Amines, uses RL: NUU (Other use, unclassified); USES (Uses) (secondary; liq. softener comps. with good prevention of color fading during rinsing)				
IT	74-89-5, Methanamine, uses 107-10-8, Propylamine, uses 107-64-2 , Dimethyldistearylammonium chloride 111-42-2, uses 111-86-4, 1-Octanamine 141-43-5, uses 142-95-0, 1-Octanamine hydrochloride 556-53-6, Propylamine hydrochloride 593-51-1, Methanamine hydrochloride 2002-24-6, Ethanolamine hydrochloride 4048-33-3, 6-Hydroxy-1-hexanamine 14426-21-2, Diethanolamine hydrochloride 51807-73-9, Propylamine acetate 56633-25-1 67846-68-8 69499-05-4 119191-49-0 145703-72-6 165556-75-2 172617-88-8 202069-09-8 202069-10-1 202069-11-2 202069-12-3 202069-14-5 202420-25-5 RL: NUU (Other use, unclassified); USES (Uses) (liq. softener comps. with good prevention of color fading during rinsing)				
L101	ANSWER 10 OF 16 HCAPLUS COPYRIGHT 2003 ACS				
IT	107-64-2 , Dimethyldistearylammonium chloride 7212-69-3 , Dimethyldiolelammonium chloride 57322-84-6 , Dipalmitylhydroxyethylmethylammonium chloride 67846-68-8 , Di(stearoyloxyethyl)dimethylammonium chloride RL: TEM (Technical or engineered material use); USES (Uses) (stable high perfume, low active fabric softener comps.)				
RN	107-64-2 HCAPLUS				
CN	1-Octadecanaminium, N,N-dimethyl-N-octadecyl-, chloride (9CI) (CA INDEX NAME)				



RN 7212-69-3 HCAPLUS

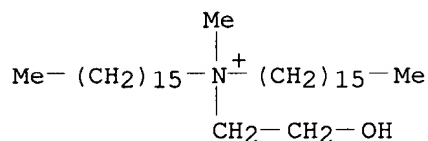
CN 9-Octadecen-1-aminium, N,N-dimethyl-N-(9Z)-9-octadecenyl-, chloride, (9Z)-
(9CI) (CA INDEX NAME)

Double bond geometry as shown.



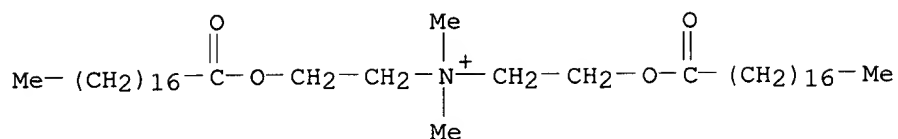
RN 57322-84-6 HCAPLUS

CN 1-Hexadecanaminium, N-hexadecyl-N-(2-hydroxyethyl)-N-methyl-, chloride
(9CI) (CA INDEX NAME)



RN 67846-68-8 HCAPLUS

CN Ethanaminium, N,N-dimethyl-2-[(1-oxooctadecyl)oxy]-N-[2-[(1-oxooctadecyl)oxy]ethyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

AN 1997:425261 HCAPLUS
 DN 127:36246
 TI Stable high perfume, low active fabric **softener**
compositions
 IN Avila-Garcia, Maria Cristina; Escobosa-Reinosa, Roberto; Coria-Aguilar, Miriam
 PA Procter & Gamble Company, USA; Avila-Garcia, Maria Cristina; Escobosa-Reinosa, Roberto; Coria-Aguilar, Miriam
 SO PCT Int. Appl., 45 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM C11D003-00
 ICS C11D003-50
 CC 46-6 (Surface Active Agents and Detergents)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9716516	A1	19970509	WO 1996-US17151	19961025
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG				
	CA 2242405	AA	19970509	CA 1996-2242405	19961025
	CA 2242405	C	20010605		
	AU 9675219	A1	19970522	AU 1996-75219	19961025
	EP 858499	A1	19980819	EP 1996-937750	19961025
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
	CN 1206433	A	19990127	CN 1996-199411	19961025
	BR 9611374	A	19990223	BR 1996-11374	19961025
	US 6022845	A	20000208	US 1998-51826	19980630
PRAI	US 1995-7224P	P	19951103		
	US 1996-22882P	P	19960820		
	WO 1996-US17151	W	19961025		

OS MARPAT 127:36246

AB Liq. fabric **softener compns.** for use in the rinse cycle of a laundering process comprise 0.4-24% cationic fabric softener; 0.3-10% hydrophobic perfume; 0.4-20% nonionic surfactant; 0-3% water-sol. ionizable inorg. salt; 60-98.5% water; and 0-10% other ingredients; the **compns.** have a ratio of cationic **softener** to perfume of about 1:3-5:1 and a ratio of cationic softener to nonionic surfactant of about 1:2-4:1, the amt. of cationic softener plus nonionic surfactant is about 1-30%; and the compns. are liq. aq. phases with discrete hydrophobic

particles dispersed substantially uniformly therein. Thus, a softener contained ditallowdimethylammonium chloride 1.14, glycerol monostearate 1.14, a perfume 0.6, Ca chloride 0.1, HCl 0.007, a silicone 0.015, a dye 0.0045, and water.

ST softener cationic quaternary ammonium; glycerol monostearate nonionic softener; fabric softener surfactant

IT Surfactants

(cationic; stable high perfume, low active fabric **softener** **comps.**)

IT Esters, uses

RL: TEM (Technical or engineered material use); USES (Uses)

(fatty, glycerol esters; stable high perfume, low active fabric **softener** **comps.**)

IT Surfactants

(nonionic; stable high perfume, low active fabric **softener** **comps.**)

IT Softening agents

Textiles

(stable high perfume, low active fabric **softener** **comps.**)

IT Quaternary ammonium compounds, uses

RL: TEM (Technical or engineered material use); USES (Uses)

(stable high perfume, low active fabric **softener** **comps.**)

IT 107-64-2, Dimethyldistearylammonium chloride 122-19-0,

Benzyltrimethylstearylammonium chloride 7212-69-3,

Dimethyldiolelammonium chloride 31566-31-1, Glycerol monostearate

57322-84-6, Dipalmitylhydroxyethylmethylammonium chloride

67846-68-8, Di(stearoyloxyethyl)dimethylammonium chloride

190914-09-1, Istemul 610

RL: TEM (Technical or engineered material use); USES (Uses)

(stable high perfume, low active fabric **softener** **comps.**)

L101 ANSWER 11 OF 16 HCAPLUS COPYRIGHT 2003 ACS

IT 107-64-2, Distearyltrimethylammonium chloride 67846-68-8,

Dimethylbis[2-(stearoyloxy)ethyl]ammonium chloride 89519-08-4,

Dimethyldiolelammonium methyl sulfate 131692-03-0

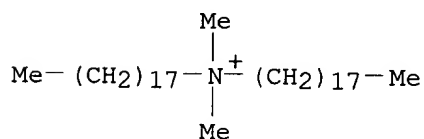
167487-91-4

RL: TEM (Technical or engineered material use); USES (Uses)

(fabric softeners contg. quaternary ammonium salts and protein hydrolyzates for wool)

RN 107-64-2 HCAPLUS

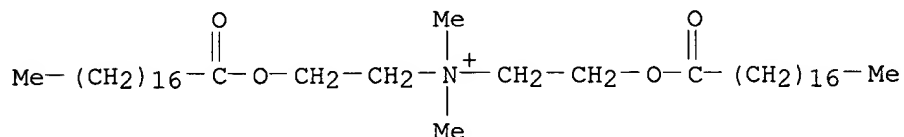
CN 1-Octadecanaminium, N,N-dimethyl-N-octadecyl-, chloride (9CI) (CA INDEX NAME)



Cl⁻

RN 67846-68-8 HCAPLUS

CN Ethanaminium, N,N-dimethyl-2-[(1-oxooctadecyl)oxy]-N-[2-[(1-oxooctadecyl)oxy]ethyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 89519-08-4 HCAPLUS

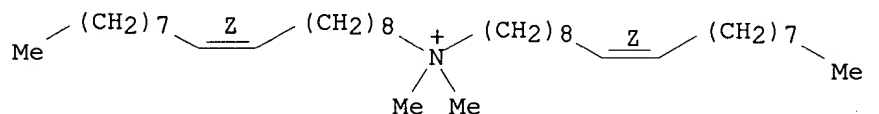
CN 9-Octadecen-1-aminium, N,N-dimethyl-N-9-octadecenyl-, (Z,Z)-, methyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 45315-43-3

CMF C38 H76 N

Double bond geometry as shown.



CM 2

CRN 21228-90-0

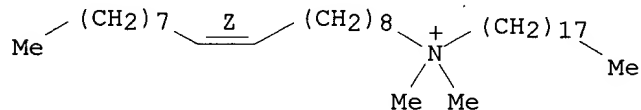
CMF C H3 O4 S

Me-O-SO₃⁻

RN 131692-03-0 HCAPLUS

CN 9-Octadecen-1-aminium, N,N-dimethyl-N-octadecyl-, chloride, (9Z)- (9CI) (CA INDEX NAME)

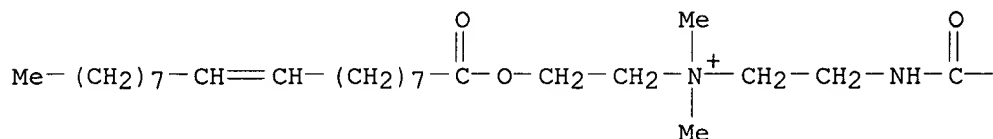
Double bond geometry as shown.

Cl⁻

RN 167487-91-4 HCAPLUS

CN Ethanaminium, N,N-dimethyl-N-[2-[(1-oxo-9-octadecenyl)oxy]ethyl]-2-[(1-oxooctadecyl)amino]-, chloride (9CI) (CA INDEX NAME)

PAGE 1-A

● Cl⁻

PAGE 1-B

— (CH₂)₁₆—Me

AN 1995:485673 HCAPLUS

DN 123:173616

TI Fabric **softener compositions**

IN Morita, Hiroshi; Fukumoto, Yoshikatsu; Oota, Seiichi

PA Lion Corp, Japan

SO Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM D06M013-463

ICS D06M015-15

CC 46-5 (Surface Active Agents and Detergents)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07018576	A2	19950120	JP 1993-188887	19930630
	JP 3256748	B2	20020212		
PRAI	JP 1993-188887		19930630		

OS MARPAT 123:173616

AB The compns., useful for wool and silk, comprise (A) 3-30% R₁N+R₂R₃R₄ X- (R₁, R₂ = ester or amide link-interrupted C₁₈-21 alkyl or alkenyl, C₁₆-20 alkyl or alkenyl; R₃, R₄ = C₁-3 alkyl, hydroxyalkyl; X- = anion) and (B) 0.001-1% protein hydrolyzate polypeptides with wt.-av. mol. wt. (Mw) 200-1500 or their derivs. Thus, a compn. contg. 15.0% dimethyldistearylammonium chloride and Promois WK (Mw 400) showed good storage stability and gave a soft handle on wool.

ST storage stability softener quaternary ammonium; keratin hydrolyzate blend softener wool

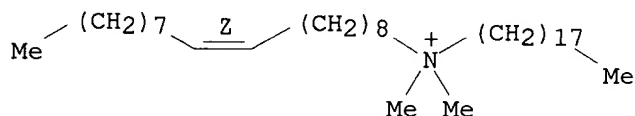
IT Protein hydrolyzates

RL: TEM (Technical or engineered material use); USES (Uses)

(Soya, Promois WS; fabric softeners contg. quaternary ammonium salts

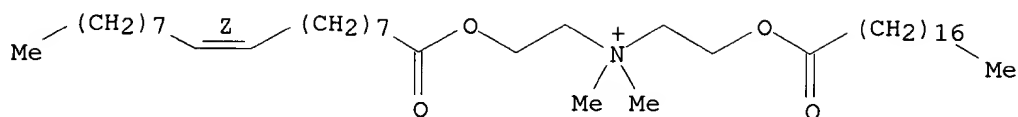
- and protein hydrolyzates for wool)
- IT Softening agents
(fabric softeners contg. quaternary ammonium salts and protein hydrolyzates for wool)
- IT Peptides, uses
Quaternary ammonium compounds, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(fabric softeners contg. quaternary ammonium salts and protein hydrolyzates for wool)
- IT Collagens, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(hydrolyzates, Promois W 42; fabric softeners contg. quaternary ammonium salts and protein hydrolyzates for wool)
- IT Keratins
RL: TEM (Technical or engineered material use); USES (Uses)
(hydrolyzates, fabric softeners contg. quaternary ammonium salts and protein hydrolyzates for wool)
- IT **107-64-2**, Distearyltrimethylammonium chloride **67846-68-8**,
Dimethylbis[2-(stearoyloxy)ethyl]ammonium chloride **89519-08-4**,
Dimethyldioleyleammonium methyl sulfate **131692-03-0**
167487-91-4
RL: TEM (Technical or engineered material use); USES (Uses)
(fabric softeners contg. quaternary ammonium salts and protein hydrolyzates for wool)
- L101 ANSWER 12 OF 16 HCAPLUS COPYRIGHT 2003 ACS
- IT **131692-03-0**, Dimethyloleyleammonium chloride
160944-70-7
RL: TEM (Technical or engineered material use); USES (Uses)
(fabric softeners contg. quaternary ammonium salts, polyoxyethylenated isotridecyl ether, and alcs. with good storage stability)
- RN 131692-03-0 HCAPLUS
- CN 9-Octadecen-1-aminium, N,N-dimethyl-N-octadecyl-, chloride, (9Z)- (9CI)
(CA INDEX NAME)

Double bond geometry as shown.



- RN 160944-70-7 HCAPLUS
- CN Ethanaminium, N,N-dimethyl-N-[2-[(1-oxo-9-octadecenyl)oxy]ethyl]-2-[(1-oxooctadecyl)oxy]-, chloride, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



● Cl⁻

AN 1995:485672 HCAPLUS
 DN 123:173615
 TI Liquid fabric **softener compositions** with improved storage stability
 IN Fukumoto, Yoshikatsu; Oota, Seiichi
 PA Lion Corp, Japan
 SO Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM D06M013-463
 CC 46-5 (Surface Active Agents and Detergents)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07018575	A2	19950120	JP 1993-188892	19930630
	JP 3183755	B2	20010709		
PRAI	JP 1993-188892		19930630		
OS	MARPAT 123:173615				
AB	The compns. comprise (A) R ₁ N+R ₂ R ₃ 2 X ⁻ (R ₁ = C ₁₂ -24 alkenyl; R ₂ = C ₁₂ -24 alkyl; R ₃ , R ₄ = C ₁ -4 alkyl, hydroxyalkyl; X ⁻ = anion) (sic) or R ₅ CO(OR ₇) _m N+[(R ₈ O) _n COR ₆]R ₉ R ₁₀ X ⁻ (R ₅ = C ₁₁ -23 alkenyl; R ₆ = C ₁₁ -23 alkyl; R ₇ , R ₈ = C ₆ H ₅ 2p; R ₉ , R ₁₀ = C ₁ -4 alkyl, hydroxyalkyl; m, n = 1-4; p = 2-4), (B) 0.1-5% isotridecyl alc. 10-80 mol ethoxylate, and (C) 1-20% mono- and/or dihydric alcs. Thus, an aq. softener contg. dimethyloleystearylammonium chloride 15, polyoxyethylene (40) isotridecyl ether 3, and ethylene glycol 6% showed good storage stability at +50.degree. and -15.degree..				
ST	storage stability softener quaternary ammonium; isotridecyl alc ethoxylate fabric softener; methyloleystearylammonium fabric softener storage stability				
IT	Softening agents (fabric softeners contg. quaternary ammonium salts, polyoxyethylenated isotridecyl ether, and alcs. with good storage stability)				
IT	Alcohols, uses Quaternary ammonium compounds, uses RL: TEM (Technical or engineered material use); USES (Uses) (fabric softeners contg. quaternary ammonium salts, polyoxyethylenated isotridecyl ether, and alcs. with good storage stability)				
IT	57-55-6, 1,2-Propanediol, uses 64-17-5, Ethanol, uses 107-21-1, 1,2-Ethanediol, uses 9043-30-5, Polyethylene glycol monoisotridecyl ether 131692-03-0 , Dimethyloleystearylammonium chloride 160944-70-7 167487-90-3 RL: TEM (Technical or engineered material use); USES (Uses) (fabric softeners contg. quaternary ammonium salts, polyoxyethylenated isotridecyl ether, and alcs. with good storage stability)				

L101 ANSWER 13 OF 16 HCAPLUS COPYRIGHT 2003 ACS

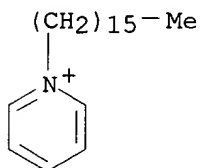
IT 123-03-5, Cetylpyridinium chloride 4277-89-8

RL: USES (Uses)

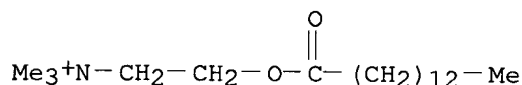
(dispersing agents, granulated nonionic fabric softeners contg.)

RN 123-03-5 HCAPLUS

CN Pyridinium, 1-hexadecyl-, chloride (8CI, 9CI) (CA INDEX NAME)

● Cl⁻

RN 4277-89-8 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(1-oxotetradecyl)oxy]-, chloride (9CI)
(CA INDEX NAME)● Cl⁻

AN 1993:236456 HCAPLUS

DN 118:236456

TI Granular fabric **softener compositions** which form aqueous emulsion concentrates

IN Hartman, Frederick Anthony; Brown, Donald Ray; Rusche, John Robert; Taylor, Lucille Florence

PA Procter and Gamble Co., USA

SO PCT Int. Appl., 26 pp.

CODEN: PIXXD2

DT Patent

LA English

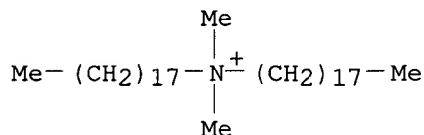
IC ICM C11D001-835

CC 46-5 (Surface Active Agents and Detergents)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9218593	A1	19921029	WO 1992-US3046	19920414
	W: AU, BB, BG, BR, CA, CS, FI, HU, JP, KP, KR, LK, MG, MN, MW, NO, PL, RO, RU, SD				
	RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GN, GR, IT, LU, MC, ML, MR, NL, SE, SN, TD, TG				
	US 5185088	A	19930209	US 1991-689406	19910422
	CA 2108907	AA	19921023	CA 1992-2108907	19920414

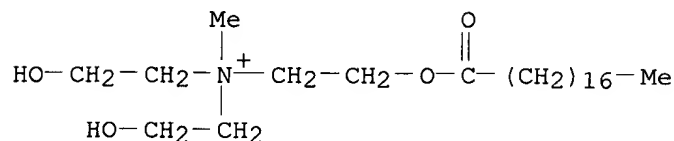
AU 9219794 A1 19921117 AU 1992-19794 19920414
 EP 581878 A1 19940209 EP 1992-912017 19920414
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE
 HU 65785 A2 19940728 HU 1993-2982 19920414
 JP 06506994 T2 19940804 JP 1992-511397 19920414
 CN 1067076 A 19921216 CN 1992-103955 19920422
 CN 1028043 B 19950329
 PRAI US 1991-689406 19910422
 WO 1992-US3046 19920414
 OS MARPAT 118:236456
 AB A granular mixt. of a nonionic softening agent, such as sorbitan monostearate or glycerol monostearate, and a cationic material having one C12-30 alkyl group, such as cetyltrimethylammonium bromide or lauroylcholine chloride, is suitable for mixing with water to form a highly dispersed conc. for softening fabrics, e.g., in the rinse cycle during laundering. The granular mixt. is packaged in cardboard containers.
 ST softener nonionic fabric granule dispersibility; packaging cardboard nonionic softener fabric; sorbitan monostearate fabric softener granule; glycerol monostearate fabric softener granule; ammonium dispersant fabric softener granule; cetyltrimethylammonium dispersant fabric softener
 IT Quaternary ammonium compounds, uses
 RL: USES (Uses)
 (dispersing agents, granules contg. nonionic fabric softeners and)
 IT Dispersing agents
 (quaternary ammonium halides, granulated nonionic fabric softeners contg.)
 IT Softening agents
 (nonionic, for fabrics, granules contg. dispersing agents and)
 IT 57-09-0, Cetyltrimethylammonium bromide **123-03-5**, Cetylpyridinium chloride **4277-89-8** 25234-60-0, Lauroylcholine chloride
 RL: USES (Uses)
 (dispersing agents, granulated nonionic fabric softeners contg.)
 IT 1338-41-6, Sorbitan monostearate 27195-16-0, Sucrose distearate 31566-31-1, Glycerol monostearate 94423-19-5
 RL: USES (Uses)
 (fabric softeners, granules contg., water-dispersible)
 L101 ANSWER 14 OF 16 HCAPLUS COPYRIGHT 2003 ACS
 IT **107-64-2**, Dimethyldistearylammonium chloride **28706-44-7**
 RL: USES (Uses)
 (softening agents, for fabrics, additives for aq. concs. contg.)
 RN 107-64-2 HCAPLUS
 CN 1-Octadecanaminium, N,N-dimethyl-N-octadecyl-, chloride (9CI) (CA INDEX NAME)

Cl⁻

RN 28706-44-7 HCAPLUS
 CN Ethanaminium, N,N-bis(2-hydroxyethyl)-N-methyl-2-[(1-oxooctadecyl)oxy]-, methyl sulfate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 45301-82-4
 CMF C25 H52 N O4



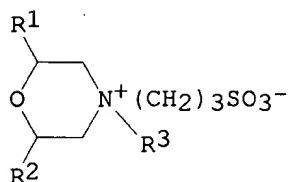
CM 2

CRN 21228-90-0
 CMF C H3 O4 S

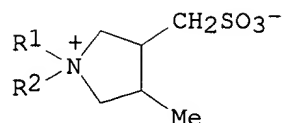
Me-O-SO₃⁻

AN 1988:551982 HCAPLUS
 DN 109:151982
 TI Softening agents for textiles
 IN Thust, Ulf; Utschick, Hermann; Ueberschaer, Klaus; Biering, Holger; Dotzauer, Rudolph; Kochmann, Werner; Ballschuh, Detlef; Ohme, Roland; Roethling, Tilo; et al.
 PA VEB Chemiekombinat Bitterfeld, Ger. Dem. Rep.
 SO Ger. (East), 7 pp.
 CODEN: GEXXA8
 DT Patent
 LA German
 IC ICM C11D001-62
 ICS C11D001-92
 CC 46-5 (Surface Active Agents and Detergents)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	DD 251784	A1	19871125	DD 1986-293336	19860801
PRAI	DD 1986-293336		19860801		
GI					

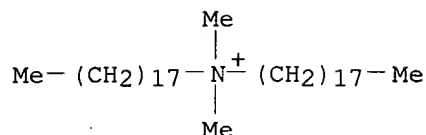


II



III

- AB Fabric-**softening compns.** based on quaternary ammonium compds. and additives are mixed with sulfobetaines $R_1N+R_2R_3(CH_2)_3SO_3^-$ (I) [R_1-R_3 = C1-25 alkyl, $(CH_2CH_2O)_nH$; n = 1-12], II [R_1, R_2 = C1-3 alkyl; R_3 = C1-25 alkyl, $(CH_2CH_2O)_nH$; n = 1-12], and/or III [R_1, R_2 = C1-25 alkyl, (C1-25 alkyl)carbonyl, $(CH_2CH_2O)_nH$] to improve the homogeneity of the concd. compns. as well as their dispersibility in water and to give improved softness, antistatic properties, and wetting of treated fabrics. A **softening compn.** contained dimethyldistearylammonium chloride 6, ethoxylated alkylphenol 2, butylene glycol 3, perfume 0.9, I [R_1 = C16-18 alkyl; $R_2 = R_3 = (CH_2CH_2O)_nH$; av. n = 6] 1.5, and water 86.6%.
- ST softener fabric conc additive; quaternary ammonium softener fabric; ammonium softener fabric additive; dispersant fabric softener conc; antistatic softener fabric; wettability softener fabric
- IT Softening agents
(for textiles, quaternary ammonium compd.-sulfobetaine compns. as)
- IT Antistatic agents
(quaternary ammonium compd.-sulfobetaine, aq. concs. contg.)
- IT Imidazolium compounds
RL: USES (Uses)
(softening agents, for fabrics, additives for aq. concs. contg.)
- IT Quaternary ammonium compounds, uses and miscellaneous
RL: USES (Uses)
(softening agents, for fabrics, aq. concs. contg. sulfobetaines and)
- IT Dispersing agents
(sulfobetaines, in aq. fabric softener concs.)
- IT Betaines
RL: USES (Uses)
(sulfo-, fabric softener concs. contg. quaternary ammonium compds. and)
- IT 2281-11-0 14933-08-5 81878-33-3 116550-03-9 116777-97-0
116777-98-1 116777-99-2
RL: USES (Uses)
(fabric softener concs. contg. quaternary ammonium compds. and)
- IT **107-64-2**, Dimethyldistearylammonium chloride **28706-44-7**
RL: USES (Uses)
(softening agents, for fabrics, additives for aq. concs. contg.)
- L101 ANSWER 15 OF 16 HCAPLUS COPYRIGHT 2003 ACS
- IT **107-64-2 28706-44-7**
RL: USES (Uses)
(**softening agents, compns.** contg., for treatment of laundered textiles)
- RN 107-64-2 HCAPLUS
- CN 1-Octadecanaminium, N,N-dimethyl-N-octadecyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

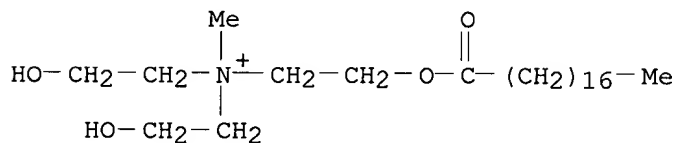
RN 28706-44-7 HCAPLUS

CN Ethanaminium, N,N-bis(2-hydroxyethyl)-N-methyl-2-[(1-oxooctadecyl)oxy]-, methyl sulfate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 45301-82-4

CMF C25 H52 N O4



CM 2

CRN 21228-90-0

CMF C H3 O4 S

Me-O-SO₃⁻

AN 1985:579996 HCAPLUS

DN 103:179996

TI Laundry post-treatment agent

IN Blum, Rainer; Ueberschaer, Klaus

PA VEB Fettchemie, Ger. Dem. Rep.

SO Ger. (East), 7 pp.

CODEN: GEXXA8

DT Patent

LA German

IC ICM C11D001-835

CC 46-5 (Surface Active Agents and Detergents)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DD 222893	A1	19850529	DD 1980-259125	19800710
PRAI	DD 1980-259125		19800710		

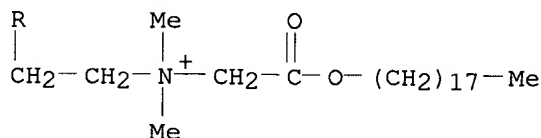
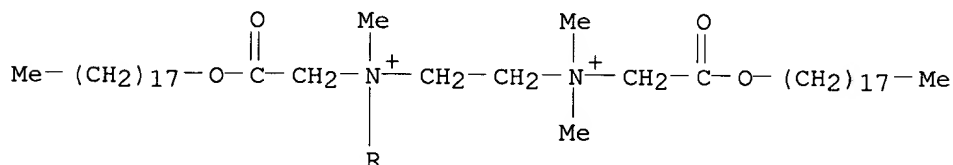
AB A compn. for the treatment of laundered fabrics contains a quaternary ammonium compd., a fatty acid diethanolamide, .gtoreq.1 acid, etc., and is useful for imparting fullness, softness, smoothness, antistatic properties, etc., to fabrics and for reducing incrustations on fabrics.

Thus, a compn. for treating laundered textiles, comprised dimethyldistearylammonium chloride [107-64-2] 6, C16-26 fatty acid diethanolamide 2.5, ethoxylated (3 mol) C10-20 alcs. 15, defoamer 0.03, perfume 0.9, and AcOH 8%, the balance being water.

- ST quaternary ammonium softener textile; antistatic textile laundering; softener textile laundering; creaseproofing textile laundering; amide diethanol textile treatment
- IT Antistatic agents
(for textiles, laundry post-treatment compns. contg.)
- IT Creaseproofing agents
(laundry post-treatment compns. contg.)
- IT Softening agents
(quaternary ammonium compds., laundry post-treatment compns. contg.)
- IT Quaternary ammonium compounds, uses and miscellaneous
RL: USES (Uses)
(softening agents, laundry post-treatment compns. contg.)
- IT Amides, uses and miscellaneous
RL: USES (Uses)
(fatty, N,N-bis(hydroxyethyl), laundry post-treatment compns. contg.)
- IT 107-64-2 18684-11-2 28706-44-7 83766-78-3
RL: USES (Uses)
(softening agents, compns. contg., for treatment of laundered textiles)

L101 ANSWER 16 OF 16 HCAPLUS COPYRIGHT 2003 ACS

- IT 28719-79-1
RL: USES (Uses)
(softeners, for wool flannel)
- RN 28719-79-1 HCAPLUS
- CN 1,2-Ethanediaminium, N-[2-[dimethyl[2-(octadecyloxy)-2-oxoethyl]ammonio]ethyl]-N,N',N'-trimethyl-N,N'-bis[2-(octadecyloxy)-2-oxoethyl]-, trichloride (9CI) (CA INDEX NAME)



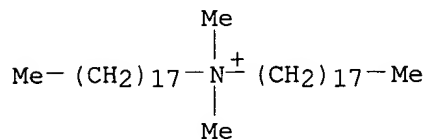
● 3 Cl⁻

- IT 107-64-2 1812-53-9
RL: USES (Uses)
(softening agents, for textiles, compns. with

dimethyldimethoxyoxacyanine fluorescent whiteners)

RN 107-64-2 HCAPLUS

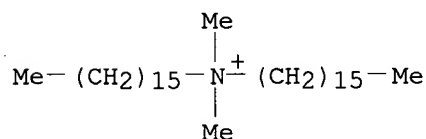
CN 1-Octadecanaminium, N,N-dimethyl-N-octadecyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

RN 1812-53-9 HCAPLUS

CN 1-Hexadecanaminium, N-hexadecyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

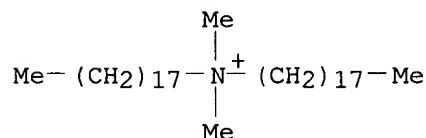
IT 107-64-2

RL: USES (Uses)

(softening agents, for textiles, compns. with oxacyanine methylmethoxy deriv. fluorescent whiteners)

RN 107-64-2 HCAPLUS

CN 1-Octadecanaminium, N,N-dimethyl-N-octadecyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

AN 1970:404896 HCAPLUS

DN 73:4896

TI Fabric softening and brightening compositions

IN Zweidler, Reinhard

PA Geigy Chemical Corp.

SO U.S., 7 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 IC D06M; C09K
 NCL 252008750
 CC 39 (Textiles)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3509049	A	19700428	US 1965-507998	19651101
PRAI	US 1965-507998		19651101		
GI	For diagram(s), see printed CA Issue.				
AB	The title compns. contg. a C1-24 quaternary ammonium salt fabric softener R2Me2N+Cl- (I), an oxacyanine fluorescent whitener (II, in which X = H or Me and Y is Me or OMe) and an optional viscosity-adjusting additive were prep'd. Thus, cotton cretonne treated with an aq. bath contg. I (R1 = R2 = hydrogenated tallow alkyl) II (X = H, Y = OMe), I (R = hexadecyl), I (R = octadecyl), I (R = octadecenyl), iso-PrOH, and NaCl, showed good whiteness and soft handle. 3,6-Dioxa-1,8-octamethylene-bis[(nonadecanoyloxymethyl)dimethylammonium chloride], 1-methyl - 1 - [.beta.-(stearoylamino)ethyl] - 2 - heptadecylimidazolium chloride, 2-oleyl-1-alkylimidazolium acetates, and similar compds. were also used as softeners. The compns. were also useful for polyacrylonitrile and polyamides such as wool or nylon. II were prep'd. from the appropriate benzoxazoles.				
ST	softening brightening compns fabrics; brightening softening compns fabrics				
IT	Ammonium compounds, substituted, uses and miscellaneous (dialkyldimethyl--- chlorides, from tallow, for softening textiles)				
IT	Softening agents (dialkyldimethylammonium chlorides, compns. with oxacyanine fluorescent brighteners)				
IT	Fluorescent brightening agents (oxacyanine derivs., compns. with quaternary ammonium salt softeners for textiles)				
IT	Textiles (softening agents for, ammonium quaternary salts, compns. with oxacyanine fluorescent brighteners)				
IT	Fiber, acrylic, uses and miscellaneous RL: USES (Uses) (softening agents for, dialkyldimethylammonium salts, compns. with oxacyanine fluorescent brighteners)				
IT	Imidazoline, 2-(9-octadecenyl)-, acetate, 1-alkyl derivs. RL: USES (Uses) (softeners, for cotton)				
IT	7621-00-3 RL: USES (Uses) (fluorescent whitener, compns. with dialkyldimethylammonium chloride softeners for textiles)				
IT	10394-90-8 RL: USES (Uses) (softeners, for cotton)				
IT	28719-28-0 RL: USES (Uses) (softeners , for cotton, compn. with oxacyanine deriv. brighteners)				
IT	28719-81-5				

- RL: USES (Uses)
 - (softeners, for cotton, with oxacyanine deriv. brighteners)
- IT **28719-79-1**
 - RL: USES (Uses)
 - (softeners, for wool flannel)
- IT **107-64-2 1812-53-9**
 - RL: USES (Uses)
 - (**softening** agents, for textiles, **compns.** with dimethyldimethoxyoxacyanine fluorescent whiteners)
- IT **107-64-2**
 - RL: USES (Uses)
 - (**softening** agents, for textiles, **compns.** with oxacyanine methylmethoxy deriv. fluorescent whiteners)